Work Order <i>July-19-12 1:22:29</i>		59	•	*875			Page 1				
Revision ID:	212-664-101	:		Accept	*N900	040	100		Setup Start	171.	S1*
Start Date: 7/2 Required Date: 8/ Reference:	20/12 17/12	Start Qty: 1.00 Req'd Qty: 1.00	•		Cust Item I Customer:	D:					•
Approvals: P	QC:	:_MLJ	Date: 12/07/0	Tooling: SPC (Y/N):		ate:		y F	Run Start Stop	"	R1* R2*
Sequence ID/ Work Center ID		Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr D212-664-141	;	sion Nbr O (DEO)		` , .					3		
100 *1.00* Mori Seiki Mori Seiki CNC Lathe	Large	MORI SEIKI CNC L Memo 1-Fill tul	ATHE LARGE be with sand & install plugs	0.00 0.00 DT8534 on both ends as pe	er Folio FA113			2	Ø	k	C (2-3-5
	# Pro	3-Blend FOLIO I DWG R *Use mi		eatedly with file card.			·			21	, —>
*110 *110* QC		QC1- Inspect dimens	sions to dimension sheet	0.00					ø	L	= R-3-5

Quality Control

NCR:	Yes	No
		\ /

WORK ORDER NON-CONFORMANCE / UPDATE

//	K
***	11-1 -12/2 in
DOA: Date:	[V 68 /30
<i>y</i> " ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	1. A

								QA Closed:	C Date:	12/8/31
Work Orde	r: 87	4 5	3		DISPOSITION		AGAINST	DEPARTMENT	/PROCESS	(
Part N	o. <u>D</u> 21	2-6	51-1	bi TRN	Rework Scrap Use-as-is 🔀 Work Order Update	4 1	Skid-tube Crosstube Machining Small Fab noforming Finishing Large Fab Composite	Pro Rec/Stor	Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
Root		!		Descri	ption of work order update	Initial	Action	Sign &		
Cause	Date	Step	Qty	·	or Non-conformance	Chief Eng	Description	Date	Verification	QC Inspector
Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier	- 11/4/15 100 1 Cuff		Cuffs	one Madrined one folerance. 2.729 2.739 2.739	<u> </u>	Per micrometer min cuff reading is 2.733'. Acceptable	12/8/15	25 /16	12 loshe	
Training	_									
Unapproved			İ			1117 6475	CORV			
Landin	a Goor				General	AULT CATE	GURY			
	Bending Centre No	ot Concer	ntric to (o/s	Bend 80M/Route Broken/Damaged	Grain Hardwa	ire ion Incomplete	Ovalized Over/Under Part Incorred	<u> </u>	Pressure/Forced Temperature/Cure Weld
-	Crushed/C Cuffs Heat Trea	t			Burrs Contamination Countersink	Instruct Mainte Mislabe		Part Lost/Mi Part Moved Positioned V	· _	Wrong Stock Pulled
L	Inspection	•	Tube	<u> </u>	Cut Too Short	Misread	d	Power Loss/	Surge	Other
<u> </u>	Ripples in				Drill Holes	Offset				
_	Torque W		xtrusior	·	Drawing	Out of Calibration				
_	Turning Se	- 7			Finish	Out of Sequence				
	Wave/Twi	ist in Tub	e		Folio	Outside	Dimensions	<i>;</i>		

Work Ord <i>July-19-12 1:22</i>		7559		*875					Page 2			
Item ID: Revision ID:	D212-664-1	01TRN		Accept	*N900	040	100)*	Setup S		*N:	S1*
Item Name:	Crosstube Tu	rning Detail								Stop	*N:	S2*
Start Date:	7/20/12	Start Qty: 1.00	*1*		Cust Item I	ID:						
Required Date:	8/17/12	Req'd Qty: 1.00	*1*		Customer:							
Reference:									_	~		
Approvals:	Process Pl	an:/	Date:	Tooling:	Da	ate:]		Start	*N	R1*
	QC:		Date:	_ SPC (Y/N):	D:	ate:				Stop	*N	R2*
Sequence ID/ Work Center II	D	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Rejec Qty		Reject Number	Insp. Stamp
120				0.00				· A				
120		MORI SEIKI CNC LAT	HE LARGE				/				*C	12-8-18
Mori Seiki		Memo		0.00			•					
Mori Seiki CNC La	the Large	1-Turn seco	nd side as per Folio FA11	13								
		*Use mill ba *Do not use FOLIO REV DWG REV:	- B	atedly with file card.								
		3-Remove s	and and plugs									
130 *120*	•	QC1- Inspect dimension	s to dimension sheet	0.00				1	(1	Ke	12-5-
130 ^{QC}		Memo		0.00	•					+		- <u></u> -

+ PERFORM ULTRA SONIC MEASUREMENT

Quality Control

. D

												DQA:	Date:		
NCR:															
Work Ord	er:						DISPOSITION				AGAINST DE	PARTMENT	/PROCESS		
Part I						:	Rework Scrap		1	Skid-tube Machining	Crosstube Small Fab		Water Jet d. Eng. Coor.	Engineering Quality	
NCR I	No.				····	V	Use-as-is Vork Order Update		i inerr	noforming Large Fab	Finishing Composite	Rec/Stoi	re/Packaging Supplier	Other	
Root					Desci	ription of work order update			Initial	Act	ion	Sign &			
Cause		Date	Step	Qty		or Non-conformance			nief Eng	Descr	iption	Date	Verification	QC Inspector	
oc/Data								T							
quip/Tooling															
perator															
//aterial															
etup										·					
Other															
rocess		,													
upplier															
raining				-											
Inapproved		1													
							F	AUI	LT CATE	GORY					
Landi	ng (Gear			_		General		_		_	_	<u></u>	_	
		Bending			_	Bend		L	Grain			Ovalized		Pressure/Forced	
		Centre No	t Concer	ntric to (o/s	_BOM/	Route		Hardwa	ire		Over/Under	tolerance	Temperature/Cure	
		Cracks			L	Brokei	n/Damaged		Inspect	ion Incomplete		Part Incorre	ct	Weld	
ı	_	Crushed/0	Crimped.		L	Burrs			Instruct	ions Incomplete/L	Jnclear	Part Lost/Mi	ssing	Wrong Stock Pulled	
		Cuffs				Contan	nination		Mainte	enance		Part Moved			
		Heat Trea			L	Count	ersink	L	Mislabe	eled		Positioned V	Vrong	_	
		Inspection	•	Tube		Cut Too			Misread	d		Power Loss/	Surge	Other	
		Ripples in	Bend			Drill H	oles		Offset						
		Torque W	aves in E	xtrusior	ո · [Drawii	ng		Out of (Calibration					
		Turning Se	equence			Finish Out of Sequence									

Outside Dimensions

Wave/Twist in Tube

Folio

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Work Order ID 87559 *87559* Page 3 July-19-12 1:22:29 PM Item ID: D212-664-101TRN Accept *N900040100* Setup Start **Revision ID:** Item Name: Crosstube Turning Detail **Start Date:** 7/20/12 Start Otv: 1.00 **Cust Item ID:** Required Date: 8/17/12 Req'd Qty: 1.00 **Customer:** Reference: Run Process Plan: Date: **Tooling:** Date: Approvals: Stop SPC (Y/N): Date: Date: Sequence ID/ Operation **Tool ID** Tool # Plan Accept Reject Reject Set Up/ Insp. Work Center ID Description Code **Qty** Qty Number Stamp Run Hours 140 OC8- Inspect parts - second check 0.00 *140* OC 0.00 Memo + CHECK ULTRA SONIC MEASUREMENT AND ORIENTATION FOR Quality Control BENDING 145 0.00

145

Crosstubes

Crosstubes

Memo

0.00

GRIND ONLY TRANSITION LINES SMOOTH LONGITUDE WAY.

0.00

150

150

HandFXtube

Memo

0.00

Hand Finishing Crosstubes

1- PRESSURE WASH X-TUBE INSIDE AND OUT

2- ACID ETCH X-TUBE INSIDE AND OUT. USE RED SCOTCH BRITE

Jw 17-8-28

												DQA:	Date:			
NCR:	CR: Yes / No WORK ORDER NON-CONFORMANCE / UPDATE															
	QA Closed: Date:															
Nork Ord	er:						DISPOSITION			AGAINST DEPARTMENT/PROCESS						
Part NCR							Rework Scrap Use-as-is Work Order Update		1	Skid-tube Machining noforming Large Fab	Crosstube Small Fab Finishing Composite	-1	Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other		
								1				-				
Root			<u>.</u>		Desc	•	tion of work order update	}	nitial	Act		Sign &				
Cause	T	Date	Step	Qty		or	Non-conformance	Ch	ief Eng	Descr	iption	Date	Verification	QC Inspector		
oc/Data quip/Tooling	\vdash										٠ ,					
perator	\vdash						,									
laterial	H															
etup	H															
ther	一						-1									
	\vdash						a)									
rocess	\vdash	•														
upplier raining	-	,								-						
	-															
napproved	1	l	<u> </u>		<u> </u>		E	<u>. </u>	T CATE	CORV						
Landi	ng (Gear					General	10L	CAIL	JON						
Lanc	<u> </u>	Bending			Г	\neg	Bend		Grain			Ovalized	Г	Pressure/Forced		
	\vdash	Centre No	ot Concer	ntric to	0/5	_	BOM/Route	-	Hardwa	re	 	Over/Under	tolerance	Temperature/Cure		
	Г	Cracks			``		Broken/Damaged		l	on Incomplete		Part Incorre	<u> </u>	Weld		
		Crushed/0	Crimped		F		Burrs		1	ions Incomplete/L	Inclear	Part Lost/Mi	 	Wrong Stock Pulled		
		Cuffs			<u> </u>	_	Contamination		Mainte	·		Part Moved]		
	厂	Heat Trea	t.		ŀ	_	Countersink	П	Mislabe			Positioned V	Vrong			
		Inspection		Tube	, t		Cut Too Short	\vdash	Misread			Power Loss/		Other		
	Г	Ripples in	-		t		Orill Holes	\vdash	Offset		<u>L.</u> .	ارد د ده ده ده ا	Ų- <u> </u>			
		Torque W		xtrusio	n I	-	Drawing		ł	Calibration						
		Turning Se			F		inish		1	Sequence						

Outside Dimensions

Wave/Twist in Tube

Folio

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Work Ord		7559		*875	559*				Pag	_ј е 4
tem ID: Revision ID:	D212-664-	101TRN		Accept	*N900	040100)* Setup	Start	*NS1*	
tem Name:	Crosstube T	urning Detail						Stop	*NS2*	č
Start Date:	7/20/12	Start Qty: 1.00	*1*		Cust Item I	D:				
Required Date:	: 8/17/12	Req'd Qty: 1.00	*1*		Customer:					
Reference:			-					~		
Approvals:	Process P	lan:	Date:	Tooling:	Da	ate:	Run	Start	"NRT	
	QC:		Date:	_ SPC (Y/N):	Da	ate:		Stop	*NR2*	k
Sequence ID/ Work Center I	iD	Operation Description		Set Up/ Run Hours	Tool ID	Tool # Plan Code	Accept Re Qty Q		Reject Insp. Number Stamp)
160		QC5- Inspect part comple	teness to step on W/O	0.00		**			- 1	
160 QC Quality Control		Memo		0.00		036		2 -	8-29	
170		Packaging		0.00					_	
170 Packaging		Memo		0.00			TW -	12	8-29	
Packaging			Stock in kanban rack			C	N			
180		QC21- Final Inspection -	Work Order Release	0.00				_	-1-017	
120 QC Quality Control		Memo		0.00			ML	<u> </u>	2/08/38	

W 1208129

			DQA:	Date:
NCR:	Yes / No	WORK ORDER NON-CONFORMANCE / UPDATE		

										QA Closed:	Date	:
Work Orde	er:				DISPOSITION				AGAINST DE	PARTMENT	/PROCESS	
Part N	No				Rework Scrap Use-as-is Work Order Update	T	I hern	Skid-tube Machining noforming Large Fab	Crosstube Small Fab Finishing Composite	-{	Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
Root				Descri	iption of work order update	Initi	ial	Act	tion	Sign &	·	
Cause	Date Step Qty			or Non-conformance	Chief	Eng	Desci	ription	Date	Verification	QC Inspector	
Doc/Data Equip/Tooling												
Operator		į										
Material												
Setup												
Other				:	դ <i>፡</i>							
Process					9.00 C							
Supplier								,				
Training				-								
Unapproved												
					F	AULT C	ATE	GORY				
Landi	ng Gear				General					_		
	Bending				Bend	Gr	ain			Ovalized		Pressure/Forced
	Centre No	ot Concei	ntric to (o/s	BOM/Route	На	rdwa	re		Over/Under	tolerance	Temperature/Cure
	Cracks			<u> </u>	Broken/Damaged	Ins	pecti	on Incomplete		Part Incorre	ct	Weld
		Crimped.		_	Burrs			ions Incomplete/I	Unclear	Part Lost/Mi	issing	Wrong Stock Pulled
	_	Crushed/Crimped_ Cuffs			Contamination	ЩМ	ainte	enance		Part Moved		
	Heat Treat				Countersink	Мі	slabe	eled		Positioned V	Vrong	_
	Inspection Strip in Tube				Cut Too Short	Мі	sreac	t		Power Loss/	Surge	Other
ļ	Ripples in Bend Torque Waves in Extrusion				Drill Holes		fset					
				ր <u> </u>	Drawing	ЩOu	t of (Calibration				
	Turning S	equence			Finish	Ou	t of S	Sequence				
	Wave/Tw	ist in Tub	e	1	Folio	Dimensions						

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Picklist Print

July-19-12 1:22:28 PM

Page 1

Work Order ID:

87559

Parent Item:

D212-664-101TRN

Parent Item Name:

Crosstube Turning Detail

Start Date: 7/20/12

Required Date: 8/17/12

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP Rev:A 08-03-06 new issue DD verified by:ec

IPP Rev B 08.04.02 removed Polish EC verified by: DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq iD	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D6005-128		Manufactured	No		· ·	120	Each	12.0000	1	1			
Crosstube Material													

Crosstube Material

Location

LG

Loc Qty

Loc Code

12

12

						2						DQA:	Date	<u>::</u>
NCR: Yes / No WORK ORDER NON-CONFORMANCE / UPDATE														
				ŕ								QA Closed:	Date):
Work Ord	er:			.*		¥ /	DISPOSITION			AGAI	NST D	EPARTMENT	/PROCESS	
Part I	4.7						Rework Scrap Use-as-is Work Order Update			Skid-tube Crosst Machining Small noforming Finish Large Fab Compo	Fab hing		Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
Root				·	Desc	rip	tion of work order update		nitial	Action		Sign &		
Cause		Date	Step	Qty		Ò	r Non-conformance	Ch	ief Eng	Description		Date	Verification	QC Inspector
occ/Data quip/Tooling Operator Material etup Other rocess upplier raining	ata cooling co													
			·		•		F/	AUL	T CATE	GORY		······································		
Landi	ng (Gear			_	_	General							
Bending Centre Not Concentric to O/S Cracks Crushed/Crimped Cuffs Heat Treat Inspection Strip in Tube Ripples in Bend Torque Waves in Extrusion Turning Sequence							Bend BOM/Route Broken/Damaged Burrs Contamination Countersink Cut Too Short Drill Holes Drawing		Instruct Mainte Mislabe Misread Offset Out of O	on Incomplete ions Incomplete/Unclear nance led L Calibration		Ovalized Over/Under Part Incorred Part Lost/Mi Part Moved Positioned V Power Loss/	ct issing Vrong	Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled Other
		Trurning Se	equence			- 1	Finish	Out of Sequence						

Outside Dimensions

Wave/Twist in Tube

Folio

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DART AEROSPACE LTD	Work Order:	8755
Description: Crosstube Assembly (205/212/412 High Fwd)	Part Number:	D212-664-141
Inspection Dwg: D212-664-141 Rev: D		Page 1 of 2

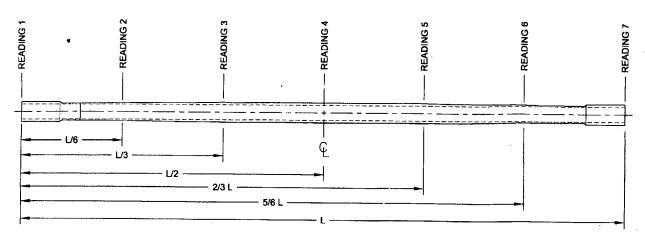
FIRST ARTICLE INSPECTION CHECKLIST

	spection Sheet wing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
	0.200	+/-0.010	200	1:		VCVN	C.NC 504
	R0.063	+/-0.010	063			AG.	CVC-CD
	2.740	+0.005/-0.000	2.734- 2.	730 :	/	vern-	CNC-06
	5.097	+/-0.030	5.097				6000
	2.304	+0.005/-0.000	-2.304				
	2.340	+0.005/-0.000	a.34/	/			
E A	2.398	+0.005/-0.000	2461				
SIDE	2.448	+0.005/-0.000	2.453				
	2.498	+0.005/-0.000	2.503				
Ī	2.549	+0.005/-0.000	2,553				
Ī	2.599	+0.005/-0.000	2.602				
	2.671	+0.005/-0.000	2.676	,//			
	2.701	+0.005/-0.000	2.704				
	0.200	+/-0.010	.200			VEVA	(W.CB
Ĺ	R0.063	+/-0.010	.063			RU	
	2.740	+0.005/-0.000	2.742	-		VIRVA	(NC-08
	5.097	+/-0.030	5,097			1	(000 000
	2.304	+0.005/-0.000	2.308	. /			
_ L	2.340	+0.005/-0.000	2.34				
EB	2.398	+0.005/-0.000	2-402				
SIDE	2.448	+0.005/-0.000	2.953				
	2.498	+0.005/-0.000	2.503	/_			-
	2.549	+0.005/-0.000	2.553	//			
	2.599	+0.005/-0.000	2.603				
	2.671	+0.005/-0.000	2.673				
	2.701	+0.005/-0.000	2,703				
	126.514	+/-0.020	126.500		£2	TAPE	LG-2Z



DART AEROSPACE LTD	Work Order:	27559
Description: Crosstube Assembly (205/3/2/412 High Fwd)	Part Number:	D212-664-141
Inspection Dwg: D212-664-141 Rev: D		Page 2 of 2

WALL THICKNESS MEASUREMENT



	WALL	THICKNESS	MEASUREME	NT (IN)	Deviation	
Location	w1	w2	w3	w4	Δw (max-min)	TOLERANCE
READING 1 L= 0"	,379	-369	-384	.388	-019	
READING 2 L= \(\int \)	. 203	.204	: 272	.219	019	
READING 3	-292	-293	,309	, 305	-017	
READING 4	.386	(380	, 384	- 384	.006	0.048"
READING 5	.301	-294	,298	.2ch	.006	
READING 6	.213	. 210	2/2	. 210	.603	
READING 7	- 383	. 377	374	-384	100.	

Calibration Result

Actual Block Thickness: ______
Sitescan 250 Measured Thickness: _____

Measured by: Market by: The Preliminary Approval:

Date: 12/08/07 Date: 12-8-16 16 Date:

Date	Change (Revised by	Approved
05.04.27	New Issue (P/O D412-664-101)		- ippiorou
06.03.15	Tolerance revised for 5.097 per Dwg Rev update		
07.05.28	Dwg Rev updated		
10.02.02	Dimension 126,514 was 126,51		 -
			1111
	05.04.27 06.03.15 07.05.28 10.02.02	05.04.27 New Issue (P/O D412-664-101) 06.03.15 Tolerance revised for 5.097 per Dwg Rev update 07.05.28 Dwg Rev updated	05.04.27 New Issue (P/O D412-664-101) KJ/JLM 06.03.15 Tolerance revised for 5.097 per Dwg Rev update KJ/JLM 07.05.28 Dwg Rev updated KJ/JLM 10.02.02 Dimension 126.514 was 126.51 KJ

Item	Qty -141	Qty -141 B	Part Number	Description
1	Х		D212-664-141	CROSSTUBE ASSEMBLY (205/212/412 HIGH FWD)
2		Х	D212-664-141B	CROSSTUBE ASSEMBLY (214 HIGH FWD)
3	. 1	1	D6005-128	CROSSTUBE
4	2	2	D2893-1	SUPPORT
5	4	4	D3595-063-450	RUBBER CUSHION
6	4	4	MS21920-25	CLAMP (OR MS21920-26)
7	A/R	A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023 ADHESIVE (TEXTRON/BELL SPEC. 299-947-100, TYPE II, CLASS 2 ADHESIVE)

GENERAL NOTES:

D

С

В

- 1) MATERIAL: MANUFACTURED FROM D6005-128 FINISHED LENGTH = 126.514±0.020
- 2) FINISH: CHE! L.L CONVERSION COAT PER DART QSI 005 4.1 PRI! SI SIDE AND OUTSIDE PER DART QSI 005 4.2 PAINTOUTSIDE PER DART QSI 005 4.2
- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- UNITS: INCHES UNLESS OTHERWISE NOTED.
- BREAK SHARP EDGES: 0.005 TO 0.010 MAX.
- IDENTIFICATION: SCRIBE DART PART NUMBER "D212-664-XXX" AND BATCH NUMBER ON INSIDE OF CUFF USING VIBRATING STYLUS
- WEIGHT: D212-664-141 = 33.6 lbs (PER IIN-D212-664) D212-664-141B = 33.6 lbs (PER IIN-D212-664)
- PART IS SYMMETRIC ABOUT CENTERLINE.
- RUN CUTTER OFF PART. BLEND OUT EDGE LONGITUDINALY, TRANSITION SHOULD BE SMOOTH
- 10) BEND PROGRESSIVELY WITH A MINIMUM OF 3 PASSES. MAXIMUM TUBE FLATTENING DUE TO BENDING IS 6% BASED ON O.D.
- 11) LIQUID PENETRANT INSPECT OUTSIDE SURFACE OF CROSSTUBE PER QSI 038.
- 12) INSTALL D2893-1 SUPPORT USING 0.03° TO 0.06° THICK LAYER OF MAGNOBOND 6398 TO THE SURFACE OF D2893-1 THAT WILL BE IN CONTACT WITH THE CROSSTUBE PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING
- 13) INSTALL MS21920-25 CLAMPS (OR -26) WITH D3595-063-450 RUBBER CUSHIONS TO SECURE THE D2893-1 SUPPORT ON TOP SIDE OF THE CROSSTUBE. ENSURE CLAMPS ARE OPPOSITE OF CROSSTUBE. SUPPORT
- 14) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS. DEFECTS UP TO 0.005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING

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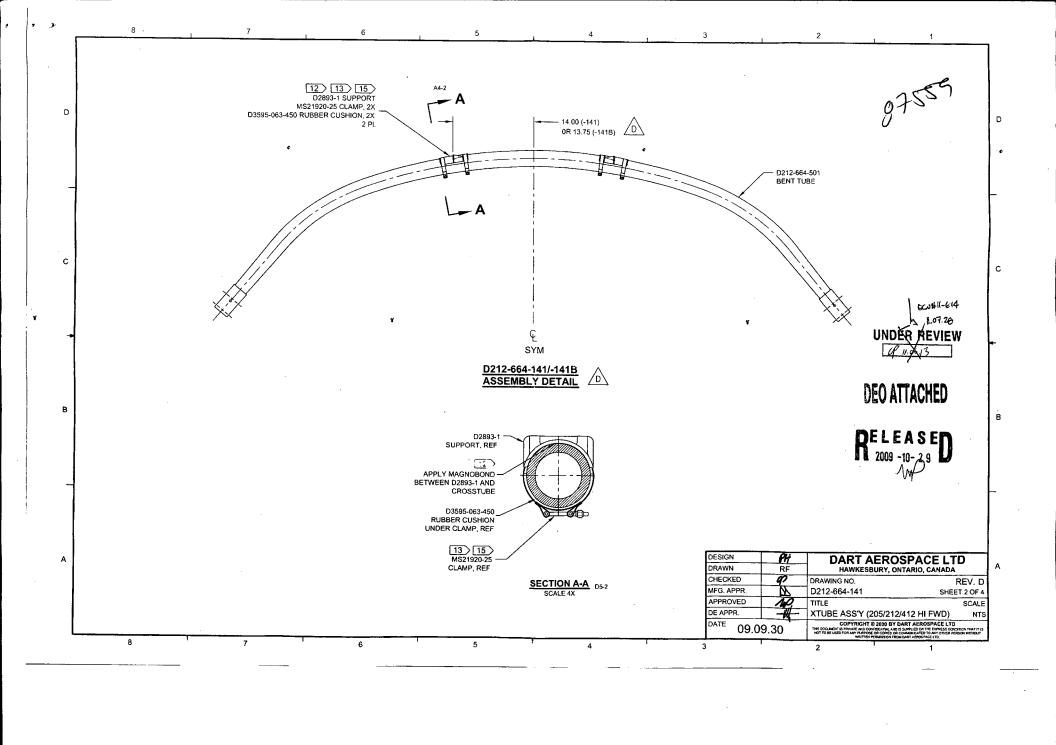
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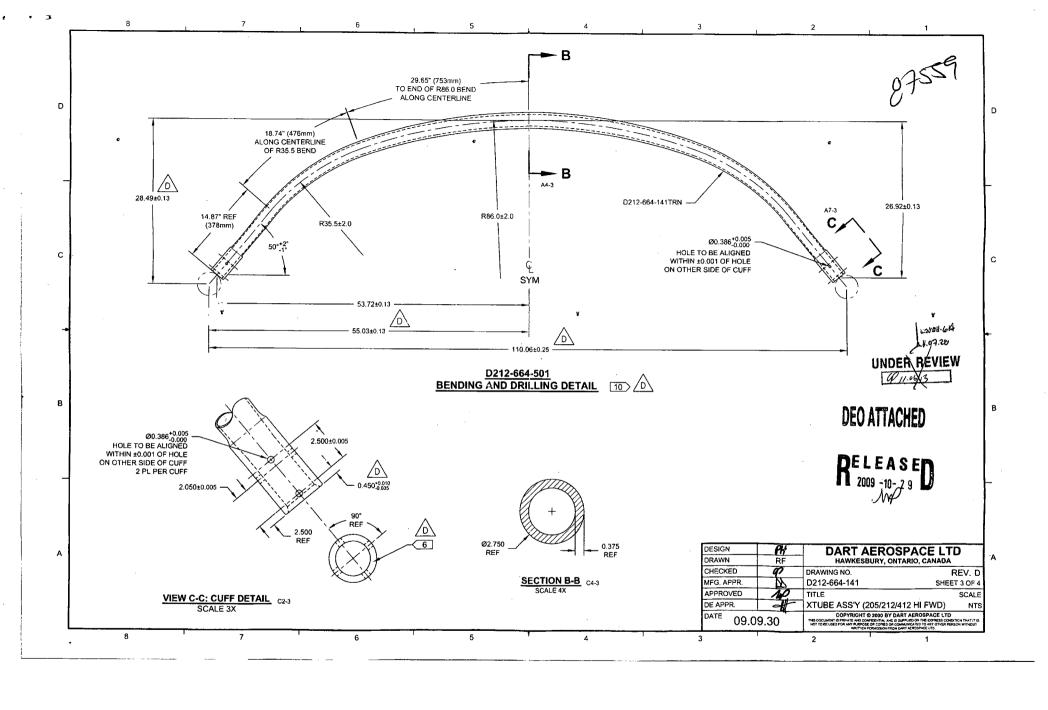
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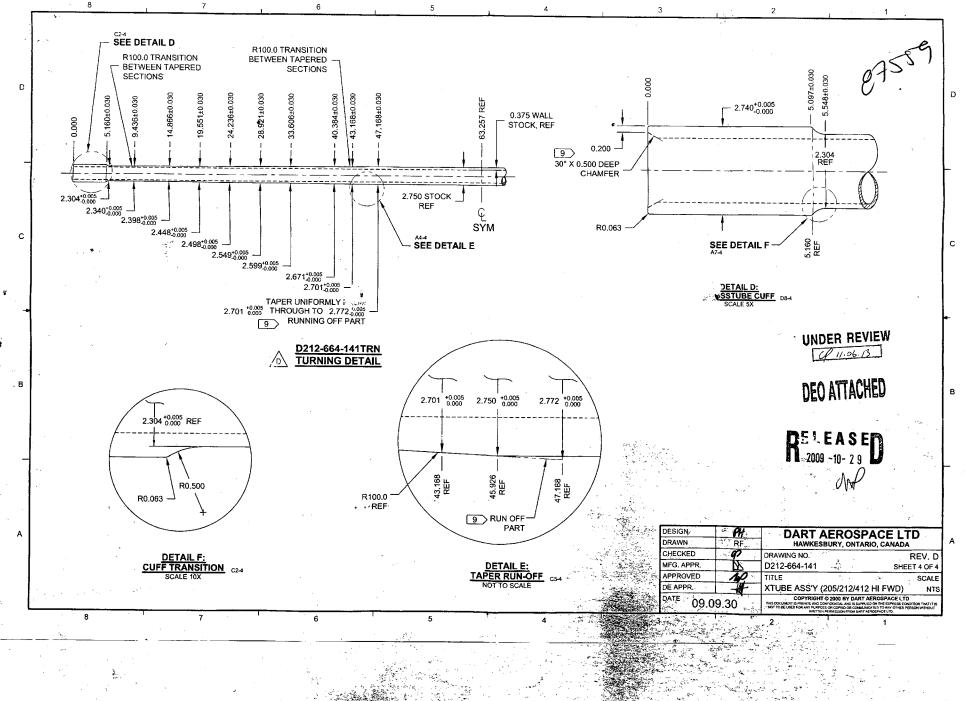
REFORMAT/REVISE GENERAL NOTES/PART LIST; 09.09.30 REORGANIZED VIEWS AND REFORMATTED DRAWING TO CURRENT STANDARDS; ADD -141B (ZN B4-2, D4-2); REMOVED REF & ADD TOLERANCES (ZN 64-3, C6-3, C8-3 & B6-3); RELOCATED FLAG #6 PER PAR 08-046 (ZN A5-3); MOVED TURNING DETAIL & UPDATED TOLERANCE TO SHEET 4 REMOVE -851 ABRASION STRIP; ADD MAGNOBOND 07.03.08 6398, CUSHION, REVERSE CLAMPS ADD HOLES FOR COMPATABILITY WITH BHT/AA 05.02.04 SKIDTUBES NEW ISSUE 00.12.12 REV. DESCRIPTION BY DATE DESIGN DART AEROSPACE LTD DRAWN HAWKESBURY, ONTARIO, CANADA RF CHECKED DRAWING NO. REV. D MFG. APPR D212-664-141 SHEET 1 OF 4 APPROVED TITLE SCALE DE APPR. XTUBE ASS'Y (205/212/412 HI FWD) NTS

DATE

09.09.30







DRAWING NO.	TITLE		REV. D	DART AEROSPACE LT	D.E.O. NO.	SHEET NO.	SCALE
		007/005/040/44					SCALE
D212-664-1	TI XIUBE A	SSY (205/212/41	2 HI FWD)	ENGINEERING ORDE	R D212-664-141-D-1	SHEET 1 OF 2	NTS
DRAWN		CHECKED	P	MFG. APPR. &	APPROVED NA	DE APPR.	
DATE 1	1.04.07	DATE	11,07,11	DATE ((.04.(2	DATE 11/04/17	DATE 11.04.12	-

ADD AN INSPECTION WINDOW TO UNDERSIDE OF CROSSTUBE.

CHANGE:

NOTES 2 OF SHEET 1 IS AMENDED AS FOLLOWS:

IS:

2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1

PRIME IN DE AND OUTSIDE PER DART QSI 005 4.2

MASK USERSIDE OF CROSSTUBE AS SHOWN (HATCHED AREA) AND

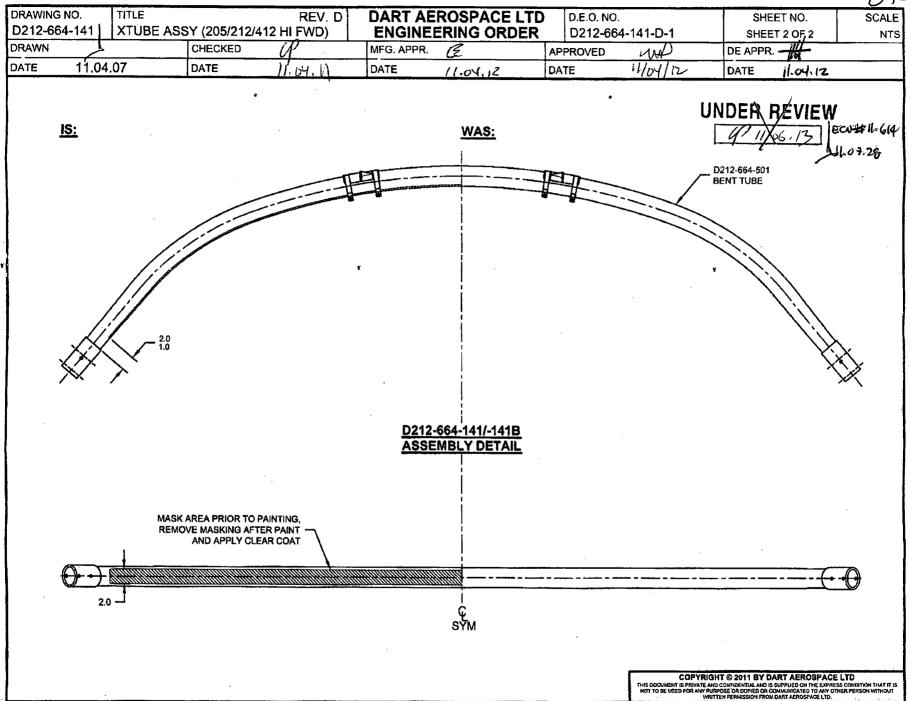
PAINT OUTSIDE PER DART QSI 005 4.2 REMOVE MASKING AND APPLY CLEAR COAT

WAS:

2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1

PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2

PAINT OUTSIDE PER DART QSI 005 4.2



DRAWING NO.	TITLE REV. D	DART AEROSPACE LTD	D.E.O. NO.	SHEET NO.	SCALE
D212-664-141	CROSSTUBE ASS'Y (205 HI FWD)	ENGINEERING ORDER	D212-664-141-D-2	SHEET 1 OF 1	NTS
DRAWN //	CHECKED A>>	MFG. APPR.	APPROVED MA	DE APPR.	
DATE 11.07	15 DATE 11.07.20	DATE 11.07.21	DATE 11/07/21	DATE 11.07.21	

PURPOSE:

REPLACE MAGNOBOND WITH PROSEAL

CHANGE:

IS:

item	Qty -141	Qty -141B	Part Number	Description
7	A/R	A/R	PROSEAL 890 B-2	SEALANT, AMS-S-8802 CLASS B-2

WAS:

			1	
7	A/R	A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023
			·	ADHESIVE (TEXTRON/BELL SPEC. 299-947-100,
	L			TYPE II, CLASS 2 ADHESIVE)

NOTE 12 & 15, SHEET 1 IS AMENDED AS FOLLOWS:

IS:

- 12) TO INSTALL D2893-1 SUPPORT: ABRADE MATING SURFACE OF SUPPORT AND CROSSTUBE WITH 180-GRIT SANDPAPER AND REMOVE RES DUE WITH MEK (OR EQUIVALENT). APPLY A 0.04" TO 0.07" THICK LAYER OF PROSEAL 890 CLASS B-2 (OR AMS-S-8802 CLASS B-2) SEALANT TO MATING SURFACE OF SUPPORT.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING. PRIOR TO PACKAGING, RE-CHECK TORQUE ON CLAMPS AFTER PROSEAL 890 SEALANT HAS CURED FOR 72 HOURS.

WAS:

- 12) INSTALL D2893-1 SUPPORT USING 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 TO THE SURFACE OF D2893-1 THAT WILL BE IN CONTACT WITH THE CROSSTUBE PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.



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